

132. (Amended) A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain, wherein said epidermal growth factor-like domain comprises an [the] amino acid sequence [of] which is identical to an amino acid sequence encoded by a GGF/p185 erb B2 ligand gene, and wherein said amino acid sequence comprises an amino acid sequence encoded by a nucleic acid sequence selected from the group consisting of:

SEQ ID NO: 154 (EGFL1);

SEQ ID NO: 155 (EGFL2);

SEQ ID NO: 156 (EGFL3);

SEQ ID NO: 157 (EGFL4);

SEQ ID NO: 158 (EGFL5);

SEQ ID NO: 159 (EGFL6); and

amino acids 54-103 encoded by SEQ ID NO: 150

[sufficient to induce myelination of a neural cell by said glial cell].

136. (Amended) [The method of claim 133] A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain,

136. (Twice amended) A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain, wherein said epidermal growth [factor like] factor-like domain comprises the [polypeptide encoded by] amino acid sequence set forth in SEQ ID NO: 188[, wherein the human C/D'-segment polypeptide encoded by SEQ ID NO: 179 is immediately C-terminal to the human C-segment polypeptide encoded by SEQ ID NO: 177].

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137. (Twice amended) A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain, wherein said epidermal growth [factor like] factor-like domain comprises the [polypeptide encoded by] amino acid sequence set forth in SEQ ID NO: 189[, wherein the bovine C/D'-segment polypeptide encoded by SEQ ID NO: 143 is immediately C-terminal to the human C-segment polypeptide encoded by SEQ ID NO: 177, and the human D-segment polypeptide encoded by SEQ ID NO: 180 is immediately C-terminal to the polypeptide encoded by SEQ ID NO: 143].

In the Drawings:

Replace Figs. 31I-31L with the corrected copies of Figs. 31I-31L, provided herewith.

wherein said epidermal growth factor like domain [further] comprises the polypeptide encoded by SEQ ID NO: 188, wherein the human C/D'-segment polypeptide encoded by SEQ ID NO: 179 [178] [, wherein SEQ ID NO: 178] is immediately C-terminal to the human C-segment polypeptide encoded by SEQ ID NO: 177.

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137. (Amended) [The method of claim 133] A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain, wherein said epidermal growth factor like domain [further] comprises the polypeptide encoded by SEQ ID NO: 189 [SEQ ID NO: 179], wherein the bovine C/D' -segment polypeptide encoded by SEQ ID NO: 143 [42] is immediately C-terminal to the human C-segment polypeptide encoded by SEQ ID NO: 177, and the human D-segment polypeptide encoded by SEQ ID NO: 180 is immediately C-terminal to the polypeptide encoded by SEQ ID NO: 143]

139. (Amended) The method of claim 132, 136, 137 or 141, wherein said [A] method [for inducing myelination of a neural cell by a glial cell,] further [comprising] comprises contacting said cell with [an amount of] a polypeptide which binds the p185 erb B2 receptor[, sufficient to induce myelination of a neural cell by said glial cell].

C¹ 140. (Amended) The method of claim 132, 136, 137 or 141, wherein said polypeptide is [A method of inducing myelination of a neural cell by a glial cell, comprising contacting said glial cell with an amount of] a recombinant polypeptide with glial cell mitogenic activity [sufficient to induce myelination of a neural cell by said glial cell].

Add new claims 141-143.

C⁸ --141. A method for inducing myelination of a neural cell by a glial cell, said method comprising contacting said glial cell with an amount of a polypeptide which comprises an epidermal growth factor-like domain, wherein said epidermal growth factor-like domain comprises an amino acid sequence which is identical to an amino acid sequence encoded by a GGF/p185 erb B2 ligand gene, and wherein said amino acid sequence is selected from the group consisting of:

SEQ ID NO: 151;

SEQ ID NO: 152; and

amino acids 362-411 of SEQ ID NO: 170,

wherein said contacting with said polypeptide is sufficient to induce myelination of said neural cell by said glial cell.



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Title: GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE

Assistant Commissioner for Patents
Washington, D.C. 20231

REPLY TO EXAMINER'S ACTION

In reply to the Examiner's Action mailed in the above-captioned case on October 29, 2001, Applicants submit the following amendments and remarks.

AMENDMENTS

In the claims

Please amend claims 142 and 143 to read as follows:

142. (Amended) The method of claim 141, wherein said amino acid sequence is SEQ ID

NO: 151.

E1

143. (Amended) The method of claim 141, wherein said amino acid sequence is SEQ ID

NO: 152.